

### **Claim History**

**Claims 21 - 24** are presently pending.

**Claims 21 – 24** are rejected.

**Claims 21 – 23** are amended as required to correct for indefiniteness.

**Claims 24**, as Allowable Subject Matter, was amended to overcome the rejections under 35 U.S. C. 112, 2<sup>nd</sup> paragraph as set forth in the Office Action and to include all the limitations of base Claim 21.

### **Listing of Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claim 1 (canceled).

Claim 2 (canceled).

Claim 3 (canceled).

Claim 4 (canceled).

Claim 5 (canceled).

Claim 6 (canceled).

Claim 7 (canceled).

Claim 8 (canceled).

Claim 9 (canceled).

Claim 10 (canceled).

Claim 11 (canceled).

Claim 12 (canceled).

Claim 13 (canceled).

Claim 14 (canceled).

Claim 15 (canceled).

Claim 16 (canceled).

Claim 17 (canceled).

Claim 18 (canceled).

Claim 19 (canceled).

Claim 20 (canceled).

Claim 21 (currently amended) A self-illuminating fabricated solid object assembly comprising:

- a) at least one visually exposed surface;
- b) at least one aperture, said aperture opening on an accessible surface;
- c) at least one optical fiber positioned within said solid object;

d) a first end of said optical fiber visually terminating at said visually exposed surface of said solid object;

e) a second end of said optical fiber operatively related to said aperture to receive light,

f) at least one receptacle operatively relating to said at least one aperture, said receptacle receiving said second end of said optical fiber providing for said second end of said optical fiber to receive light,

g) said at least one receptacle receiving an exchangeable light source comprising a light emitting diode providing for transmission of light from said exchangeable light source to said first end of said optical fiber, wherein said light source additionally comprises at least one fiber optic cable, said cable adapted for the transmission of light from said at least one exchangeable light source.

Claim 22 (currently amended) A self-illuminating fabricated solid object assembly comprising:

a) at least one visually exposed surface;

b) at least one aperture, said aperture opening on an accessible surface;

c) at least one optical fiber positioned within said solid object;

d) a first end of said optical fiber visually terminating at said visually exposed surface of said solid object;

e) a second end of said optical fiber operatively related to said aperture to receive light,

f) at least one receptacle operatively relating to said at least one aperture, said receptacle receiving said second end of said optical fiber providing for said second end of said optical fiber to receive light,

g) said at least one receptacle receiving an exchangeable light source comprising a light emitting diode providing for transmission of light from said exchangeable light source to said first end of said optical fiber, wherein said light source additionally comprises at least one fiber optic cable, said cable adapted for the transmission of light from said at least one exchangeable light source,

wherein said at least one fiber optic cable is received by a plurality of solid objects.

Claim 23 (currently amended) The A self-illuminating fabricated solid object assembly, as recited in Claim 21, further comprising:

- a) ~~at least one visually exposed surface;~~
- b) ~~at least one aperture, said aperture opening on an accessible surface;~~
- c) ~~at least one optical fiber positioned within said solid object;~~
- d) ~~a first end of said optical fiber visually terminating at said visually exposed surface of said solid object;~~
- e) ~~a second end of said optical fiber operatively related to said aperture to receive light;~~
- f) ~~at least one receptacle operatively relating to said at least one aperture, said receptacle receiving said second end of said optical fiber providing for said second end of said optical fiber to receive light;~~
- g) ~~said at least one receptacle receiving an exchangeable light source comprising a light emitting diode providing for transmission of light from said exchangeable light source to said first end of said optical fiber, wherein said light source additionally comprises at least one fiber optic cable, said cable adapted for the transmission of light from said at least one exchangeable light source.~~

wherein on said at least one visually exposed surface a plurality of predetermined patterns for receiving light comprise informational messages.

Claim 24 (currently amended) The A self-illuminating fabricated solid object assembly, as recited in Claim 21 comprising:

- a) at least one visually exposed surface;
- b) at least one aperture, said aperture opening on an accessible surface;
- c) at least one optical fiber positioned within said solid object;
- d) a first end of said optical fiber visually terminating at said visually exposed surface of said solid object;

e) a second end of said optical fiber operatively related to said aperture to receive light,

f) at least one receptacle operatively relating to said at least one aperture, said receptacle receiving said second end of said optical fiber providing for said second end of said optical fiber to receive light,

g) said at least one receptacle receiving an exchangeable light source comprising a light emitting diode providing for transmission of light from said exchangeable light source to said first end of said optical fiber, wherein said light source additionally comprises at least one fiber optic cable, said cable adapted for the transmission of light from said at least one exchangeable light source,

wherein said at least one receptacle comprises locking means for securely holding said light source ~~means~~ in place.

**REMARKS/ARGUMENTS**

**O.A. No. 4. The rejection of Claims 21 – 24** under 35 U.S.C. 112, second paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention is respectfully traversed, as follows.

Given the claim amendments and the remarks below, Applicant believes that Claims 21 – 24 have overcome the 35 U.S.C. 112, second paragraph rejections and are now in condition for allowance.

**O.A. No. 5.** Examiner argues that Claims 21-23, line 4 of each claim, recite “said solid object” without antecedent basis.

Applicant recites the antecedent basis in the preamble of each claim, as follows:

Claim 21 (previously presented) A self-illuminating fabricated solid object assembly comprising: . . .”

Claim 22 (previously presented) A self-illuminating fabricated solid object assembly comprising: . . .”

Claim 23 (previously presented) A self-illuminating fabricated solid object assembly comprising: . . .”

Both case law and the MPEP support Applicant in reciting essential structure in the preamble and, furthermore, there can be no confusion as to which “solid object” is the antecedent as there is no other “solid object” that could be a source of confusion.

“In general, a preamble limits the invention if it recites essential structure or steps, or if it is “necessary to give life, meaning, and vitality” to the claim.” Pitney Bowes, 182 F.3d at 1305.

MPEP 2111.02 Effect of Preamble -- [A] claim preamble has the import that the claim as a whole suggests for it.” *Bell Communications Research, Inc. v. Vitalink Communications Corp.*, 55 F.3d 615, 620, 34 USPQ2d 1816, 1820 (Fed. Cir. 1995). “If the claim preamble, when read in the context of the entire claim, recites limitations of the claim, or, if the claim preamble is ‘necessary to give life, meaning, and vitality’ to the claim, then the claim preamble should be construed as if in the balance of the claim.” *Pitney Bowes, Inc. v. Hewlett-Packard Co.*, 182 F.3d 1298, 1305, 51 USPQ2d 1161, 1165-66 (Fed. Cir.1999). See also *Jansen v. Rexall Sundown, Inc.*, 342 F.3d 1329,

1333, 68 USPQ2d 1154, 1158 (Fed. Cir. 2003). *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951) (A preamble reciting "An abrasive article" was deemed essential to point out the invention defined by claims to an article comprising abrasive grains and a hardened binder and the process of making it. The court stated "it is only by that phrase that it can be known that the subject matter defined by the claims is comprised as an abrasive article. Every union of substances capable *inter alia* of use as abrasive grains and a binder is not an 'abrasive article.'" Therefore, the preamble served to further define the structure of the article produced.).

The MPEP continues its support with such arguments as follow, "Any terminology in the preamble that limits the structure of the claimed invention must be treated as a claim limitation. See, e.g., *Corning Glass Works v. Sumitomo Elec. U.S.A., Inc.*, 868 F.2d 1251, 1257, 9 USPQ2d 1962, 1966 (Fed. Cir. 1989) (The determination of whether preamble recitations are structural limitations can be resolved only on review of the entirety of the application "to gain an understanding of what the inventors actually invented and intended to encompass by the claim."); *Pac-Tec Inc. v. Amerace Corp.*, 903 F.2d 796, 801, 14 USPQ2d 1871, 1876 (Fed. Cir. 1990) (determining that preamble language that constitutes a structural limitation is actually part of the claimed invention). See also *In re Stencel*, 828 F.2d 751, 4 USPQ2d 1071 (Fed. Cir. 1987). (The claim at issue was directed to a driver for setting a joint of a threaded collar\*>< however,>< the body of the claim did not directly include the structure of the collar as part of the claimed article. The examiner did not consider the preamble, which did set forth the structure of the collar, as limiting the claim. The court found that the collar structure could not be ignored. While the claim was not directly limited to the collar, the collar structure recited in the preamble did limit the structure of the driver. "[T]he framework - the teachings of the prior art - against which patentability is measured is not all drivers broadly, but drivers suitable for use in combination with this collar, for the claims are so limited." Id. at 1073, 828 F.2d at 754.)."

However, if Examiner does not find Applicant's argument persuasive, Applicant will amend the claims to specifically recite an antecedent within the body of the claim. If the Examiner should so conclude, if he desires he may communicate this to Applicant by telephone at 716 652-2380.

**O. A. No. 6.** Examiner argues that Claims 21-23 are indefinite. Applicant has amended each claim by adding "said" preceding "receptacle" as it occurs in paragraph (g) of each of the claims.

**O. A. No. 7.** Examiner argues that Claims 21-23 are indefinite because of the common recitation of the phrase "wherein said light source additionally comprises at least one fiber optic cable, said cable adapted for the transmission of light from said at least one exchangeable light source" in paragraph (g).

Although Applicant believes that paragraph (g) as recited clearly described the claimed structure, in response to Examiner's holding of indefiniteness, Applicant has amended this phrase common to Claims 21-23 to recite:

"(g) said at least one receptacle receiving an exchangeable light source **comprising a light emitting diode** providing for transmission of light from said exchangeable light source to said first end of said optical fiber, wherein said light source additionally comprises at least one fiber optic cable, said cable adapted for the transmission of light from said at least one exchangeable light source,"

where the bolded and underline text recites the phrase requested by the Examiner.

**O. A. No. 8.** Examiner argues that Claims 21-23 are indefinite because of the common recitation of the phrase "at least one receptacle receiving an exchangeable light source . . ." Examiner bases his conclusion in part on the wording of the claim and in part on pg. 13, paragraph 23, lines 10-12 of the specification that to Examiner indicates that "socket 48 is adapted for receiving fiber optical cable 70 and the light source means is remote from the solid object."

This common recitation has been amended as discussed above, which may make the point moot. But, in any case, Examiner has taken the words of the specification out of context and away from their clear meaning.

**[0023]** A light source means may comprise a variety of light sources in a variety of operative configurations. A light source means may comprise a removable, replaceable plug-in LED (light emitting diode), as one example. Such an LED light source may be provided with the fabricated solid object or may be provided separately. **FIG. 1d** illustrates receptacle 22 having socket 48 where socket 48 may be adapted for directly or indirectly receiving a light source. For instance, socket 48 may be adapted for directly receiving a replaceable light

source, which in this example is illustrated as an LED light unit 40 with light emitting means 42 positioned for reversible insertion into socket 48. Light emitting means 42 may be connected to a power source via socket 48. Alternatively, as illustrated in FIG. 1e, socket 48 may be adapted for receiving a fiber optic cable 70 that transmits light from a light source means, such as light emitting means 42 that is remote from the solid object. Light emitting means 42, may be functionally connect to power source 46 by means of socket or receptacle 72. In this example, a fiber optic cable could provide a means to transmit light from one light source emitting means to a plurality of solid objects.

[0024] As is well-known in the art, each of the sockets or receptacles and the parts of the light sources means that are inserted into the sockets may be fitted with a lock mechanism. There are many lock mechanisms, such as when the thing that is inserted has two small pimple-like features, sometimes referred to as keys that fit into "key ways" that are incised into the sides of the receptacles to receive the keys. The key ways are usually curved where the curve accepts the keys as the keys are rotated as the thing that is inserted into the receptacle is rotated. The curvature of the key ways also provides a lock into which the keys are firmly positioned. The locking mechanism may also comprise a spring mechanism, a push button mechanism, or other locking means.

**O.A. No. 9.** Examiner states that in Claim 23, line 17 the limitation "at least one visually exposed surface" is indefinite as being the same as or different from the "at least one visually exposed surface" recited in preceding line 2.

The word "said" has been appropriately added and the recitation now reads "said at least one visually exposed surface."

**O. A. Nos. 10 and 11.** Examiner states that in Claim 24, lines 2-3 the limitation "said light source means" lacks antecedent basis and is indefinite in its relationship to the preceding "exchangeable light source."

Applicant has amended Claim 24 as Allowable Subject Matter and has included in the amendment the following to negate the requirement for antecedent basis and to address the indefiniteness question posed by Examiner in No. 11.

"g) said at least one receptacle receiving an exchangeable light source comprising a light emitting diode providing for transmission of light from said exchangeable light source to said first end of said optical fiber, wherein said light source additionally comprises at least one fiber optic cable, said cable adapted for the transmission of light from said at least one exchangeable light source.